

ABSTRACTS

LIBRO DE RESÚMENES



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2014

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12th International Conference of Archaeozoology

San Rafael, Mendoza, Argentina
Septiembre / September 22nd- 27th, 2014



International Council
for Archaeozoology

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PROGRAMA / PROGRAM

DOMINGO / SUNDAY, September, 21st

Inscripción / Registration

LUNES / MONDAY, September, 22nd

Inscripción / Registration

Session 15-Dairying of non Bos domesticates. Organizers: Julia E. M. Cussans and Jacqui Mulville

Session 16-The future of osteometric analyses - methods and applications. Organizers: Katie Manning and Louise Martin

Session 23-Investigaciones sobre el perro (*Canis lupus familiaris*): domesticación, manejo y morfotipos. Organizer: Velia Mendoza España

Session 24-Climate change, marine productivity, and human-based ecosystems: contrasting sub-arctic and sub-antarctic historical marinescapes. Organizers: Herbert Maschner, Luis Borrero, Matthew Betts and Nicole Misarti

Session 25-Archaeozoological studies of amphibians and reptiles. Organizers: Rebecca Biton and Krister T. Smith

Session 32-The prospects and challenges of faunal data integration and comparative analysis. Organizer: Katherine Spielmann

Sesión de apertura/ Opening Session

Cóctel de bienvenida / Welcome Cocktail

MARTES / TUESDAY, September, 23rd

Inscripción / Registration

Session 3A-Food provisioning in complex societies I. Old world. Organizers: Levent Atici and Benjamin Arbuckle

Session 5-Multi-disciplinary zooarchaeological contributions to environmental and ecological research. Organizers: Deanna N. Grimstead and Kathryn A. Mohlenhoff

Session 8-Development of ancient horse culture in East Asia. Organizer: Akira Matsui; Hiroki Kikuchi; Manabu Uetsuki

Session 11-Chickens and people: new perspectives. Organizers: Garry Marvin, Richard Thomas, Mark Maltby and Naomi Sykes

Session 12-Zooarchaeology in Oceania. Organizers: Pam J. Crabtree and Kelila Jaffe

Session 19A-Neotropical zooarchaeology. Organizers: Pablo M. Fernández, Mariana Mondini and Sebastián Muñoz

Session 27-Fauna, subsistence and cultural dynamics of South Asian archaeology: ancient bones and new data in 21st century. Organizers: Vijay Sathe, Aarti Deshpande-Mukherjee and Prateek Chakraborty

Session 33-Trade and migration: the zooarchaeology of contact and movement. Organizers: Richard Madgwick and Sarah Viner-Daniels

Session 35-Zooarchaeology of pastoralism. Organizers: Lee G. Broderick and Robin Bendre

Session 40-Poster session: "Recent applications of digital technology in archaeozoology". Organizers: Iain McKechnie and Sarah Witcher Kansa

Session 41-General session-oral A

Session 41-General session-Poster A. Organizers: Nuria Sugrañes and María Clara Alvarez

PLENARY CONFERENCE Sala Auditorio A.

María A. Gutiérrez "There Are Always Something To Learn. Challenges And Contributions Of An Actualistic Taphonomic Research Program In A Highly Human-Impacted Environment: The Pampas Of Argentina As A Case Study"

MIÉRCOLES / WEDNESDAY, September, 24th

Inscripción / Registration

Session 3B-Food provisioning in complex societies II. New world. Organizers: Levent Atici and Benjamin Arbuckle

Session 4-Bones in space: Taphonomy and the pre- and post-depositional movement of bones. Organizers: Lee G. Broderick and Richard Madgwick

Session 6-Molluscs as a record of human-environment relationships: environmental reconstructions, impacts, and management. Organizers: Christina M. Giovas, Zhanna Antipushina and Catherine F. West

Session 7-Recent advances in understanding past turkey husbandry and use. Organizers: Erin Kennedy Thornton and Kitty Emery

Session 17-Pigs and ritual. Organizers: Fiona Beglane and Pam Crabtree

Session 18-Stories written in teeth: new archaeological insights from tooth related studies. Organizers: Florent Rivals, Edgard Camarós and Carlos Sánchez-Hernández

Session 19B-Neotropical zooarchaeology. Organizers: Pablo

M. Fernández, Mariana Mondini and Sebastián Muñoz

Session 22-Analysis of archaeological microfaunal assemblages: definitions, methods, and applications. Organizers: Débora M. Kligmann and Paula D. Escosteguy

Session 28-South american camelids: Zooarchaeology of co-evolution. Organizers: Katherine M. Moore and Guillermo Luis Mengoni G.

Session 36-Zooarchaeology of the metal ages. Organizers: Jane Sanford and Haskel Greenfield

Session 39-The spread of herding across Asia. Organizers: Jing Yuan, Zhipeng Li, Katherine Brunson, Peng Lu and Jean-Denis Vigne

Workshop 43-Workshop: South American camelid osteology and osteometry. Organizers: Mariana Mondini and Katherine Moore

Working Groups

Public Conference

“Huesos Del Presente, Huesos Del Pasado: Zooarqueología Y Etnoarqueología De Grupos De Cazadores-Recolectores” Gustavo A. Martínez. Sala Auditorio A.

JUEVES / THURSDAY, September, 25th

DIA LIBRE / FREEDAY

International Committee Meeting. Sala Retamo.

VIERNES / FRIDAY, September, 26th

Session 1-Ichthyoarchaeology in the Americas. Organizers: Philippe Béarez and Francisco Zangrando

Session 2-Global patterns in the exploitation of animal-based raw materials: technological and socio-cultural issues. Organizers: Natacha Buc, Annalisa Christie, Alice Choyke and Vivian Scheinsohn

Session 13-Meta-analyses in zooarchaeology: large-scale syntheses in the era of “big data”. Organizers: David C. Orton and James Morris

Session 14-Recent advances in biomolecular archaeology. Organizers: Jessica Metcalf and Ross Barnett

Session 20-The zooarchaeology of pastoralism: advances in theory and method. Organizers: Jennifer Grant and Silvana Urquiza

Session 21-Environments and faunal use in Mesoamerica. Organizers: Christopher M. Götz, Eduardo Corona-M and

Joaquín Arroyo-Cabral

Session 26-Reconstructing animal domestication scenarios: historical and analytical approaches. Organizers: Anne Tresset, Morgane Ollivier, Maria Saña, Miguel Perez-Enciso and Carlos Tornero

Session 38-Taphonomy: interpreting the environmental context. Organizers: Yolanda Fernández Jalvo and Claudia Montalvo

Session 37-Accompanying deaths: the role of some animals in the funerary practices. Organizer: Ilona Bede

Session 42-Roundtable discussion on the theme “Digital data: collection, organization, and dissemination”. Organizers: Sarah Witcher Kansa

Session 41-General session-oral B

Session 41- General session -Poster B. Organizers: Nuria Sugrañes and María Clara Álvarez

Session 41- General session -Poster C. Organizers: Nuria Sugrañes and María Clara Álvarez

Workshop “3D technologies and the democratization of zooarchaeology” Herbert Maschner

Plenary Conference. Sala Auditorio A

Jean-Denis Vigne “What Should We Know For Better Understanding Early Domestications And Farming?”

SÁBADO / SATURDAY, September, 27th

Session 9-The zooarchaeology of new world ungulates. Organizers: Steve Wolverton, Matthew E. Hill and Leonardo Mucciolo

Session 34-Zooarchaeology and evolutionary biology: goals, challenges and prospects in conciliating two different disciplinary fields. Organizers: Thomas Cucchi, Anne Tresset, Anthony Herrel and Raphaël Cornette

Session 31-Recent approaches to zooarchaeological and ethnozoological research at Caribbean lowlands. Organizers: Diana Rocío Carvajal Contreras and Elizabeth Ramos Rocca

Session 41- General session-oral C

Session 41- General session-oral D

Session 41- General session-oral E

Asamblea General / General Meeting

human remains along with animals, especially domestic species such as horses and dogs. In most chronicles the reason for these practices is primarily related to the accompaniment of the dead. Thus, these animals were part of the proper rites of the deceased and were deposited with them. The aim of this paper is to discuss this evidence in relation to that provided by the archaeological record of Southern Patagonia during the late Holocene. We will particularly emphasize the information obtained in mortuary contexts from Lake Salitroso (Santa Cruz Province, Argentina). In this area a total of 37 burials -including different types, such as chenques, burial under blocks and niches- have been studied. Results indicate low frequency of animal remains, mostly corresponding to guanaco (*Lama guanicoe*). Additionally, certain variability in skeletal part representation has been detected. These characteristics are not reflected in the documentary sources, but are common in the regional archaeological record. Finally, another outcome of interest is the presence of animal remains deposited by natural processes (rodents, edentates and carnivores). In sum, by comparing the ethnohistorical and archaeological records we seek to discuss the changing role played by animal species in the funerary practices of hunter-gatherer populations in Southern Patagonia

Patagonia, hunter-gatherers, human burials, animals

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An Archaeogenetic Investigation of Human-Environment Interactions in the Western Canadian Arctic

SESSION 5. MULTI-DISCIPLINARY ZOOARCHAEOLOGICAL CONTRIBUTIONS TO ENVIRONMENTAL AND ECOLOGICAL RESEARCH

Researchers are increasingly recognizing that humans have played a role in driving fluctuations in the population size of prey species in the past. However, it can be difficult to tease apart the relative importance of human predation and environmental factors in driving these trends. Combining ancient DNA analysis, isotopic analysis, zooarchaeology and traditional knowledge can provide a more comprehensive picture of the dynamic interactions between humans and their environment. Here, we present a case study from Banks Island in the Western Canadian Arctic emphasizing how ancient DNA analysis will contribute to such a multi-disciplinary investigation of these interactions over the course of the island's human history. By analyzing the genetic diversity of muskox and caribou remains from a series of well-dated sites from each major period of human occupation, we attempt to determine whether human hunting influenced the size of muskox and caribou populations over time, or whether naturally-driven population variability among these species influenced the subsistence and settlement choices of human hunters. The addition of ancient DNA analysis to more traditional zooarchaeological methods of understanding interactions between past human hunters and their prey is unprecedented in the Canadian Arctic and can not only help distinguish between human- and climate-induced changes in fauna, but can also provide important new depth to modern biological studies.

Arctic archaeology, hunter-gatherers, human-environment interactions, zooarchaeology, ancient DNA

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Extending the carbon isotope proxy for animal fat identification in lipid residue preserved in archaeological vessels to a wide range of ruminant and non-ruminant fats

SESSION 15. DAIRYING OF NON-BOS DOMESTICATES

Degraded animal fats, characterized by the presence of palmitic (C16:0) and stearic (C18:0) fatty acids and related glycerolipids are the most common class of lipids preserved in organic residues in the porous clay matrix of archaeological ceramic vessels. Animal fats are identified by determining their fatty acyl lipid distribution and stable carbon ($\delta^{13}\text{C}$) values allowing distinctions to be drawn between non-ruminant and ruminant, and dairy and adipose fats. The $\Delta^{13}\text{C}$ proxy ($= \delta^{13}\text{C}_{18:0} - \delta^{13}\text{C}_{16:0}$) was originally developed in the late 1990's by Evershed and co-workers and was based on modern reference fats sampled from animals raised in Britain on C3 diets. It has been argued that the $\Delta^{13}\text{C}$ proxy remove environmental factors (inclusion of C4 plants and variable water stress effects) that can affect the raw $\delta^{13}\text{C}$ values of the major fatty acids present in animal fats. Here we address the question of the robustness of the $\Delta^{13}\text{C}$ proxy (i) in mixed C3/C4 environments and (ii) various species by analysing fats from a wide range of archaeologically important animals including non-Bos domesticates (sheep, goats, camels, horses, pigs) raised in various isoscapes. The analyses confirmed unequivocally the general applicability of the $\Delta^{13}\text{C}$ proxy. The compilation of all known $\delta^{13}\text{C}$ values for dairy and adipose fats of ruminant animals and adipose fats of non-ruminant animals allowed a global version of the $\Delta^{13}\text{C}$ proxy to be constructed. Furthermore, it is shown that care has to be taken when choosing modern reference fats for archaeological studies as the $\Delta^{13}\text{C}$ proxy can be perturbed by current practices.

Pottery, animal fat, lipid residue analysis, carbon isotopic composition, isoscapes

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Por los pastos de la Puna: Evidencias palinológicas del pastoreo de camélidos en Antofagasta de la Sierra (Catamarca, Argentina)